

* New Numbers for Practice

LT 1: Students can use multiple strategies to convert between fractions, decimals, and percents. Strategies include memorization, division, and using equivalent fractions. (5 points)

1) Write each percent as a decimal and as a fraction in lowest terms.

a. ~~74%~~ **37%** decimal: _____ fraction: _____

b. ~~80%~~ **90%** decimal: _____ fraction: _____

c. ~~3.2%~~ **5.8%** decimal: _____ fraction: _____

d. ~~225%~~ **562%** decimal: _____ fraction: _____

e. ~~8%~~ **2%** decimal: _____ fraction: _____

LT 3: Students can describe the relationship between data using a variety of comparison statements. (2 points)

2) In a survey of ⁵²~~28~~ students in ELO class, when asked what their favorite ice cream flavor was, ¹⁸~~13~~ said their favorite flavor was vanilla, ²⁵~~6~~ said their favorite flavor was chocolate, and ¹⁷~~6~~ said their favorite flavor was strawberry.

a) Write a scaling statement based on the survey.

b) Write a reduced ratio statement based on the survey.

LT 4: Students can calculate and interpret unit rates to logically express the relationship between two quantities (10 points)

- 3) While watching a hockey match, Adam got very thirsty. The snack stand sold drinks in four sizes: (2 points)

Sort Swig: 20 ounces for \$~~0.80~~ ^{0.71}

Swig: 32 ounces for \$~~0.90~~ ⁸⁵

Big Swig: 44 ounces for \$~~0.99~~ ^{0.92}

Super Swig: 64 ounces for \$~~1.25~~ ^{1.10}

Which size is the best buy? Show work, then explain your answer in a sentence, restating the question.

- 4) Kaitlyn was driving on a bumpy, gravel road. Her average speed was ~~15~~ ¹⁰ miles per hour. How long will it take Kaitlyn to drive ~~9~~ ¹² miles? Please set up a word fraction, then a proportion to solve: (2 points)

- 5) When splitting a footlong sub sandwich with your little brother, you decide that since you're bigger and older, it's fair to cut it into a ratio of ~~3:1~~ ^{2:1}. How big is each piece? Please show all work. (2 points)

- 6) Mrs. Bonertz's Pontiac Grand Prix can go ~~520~~ ³¹⁵ miles on ~~20~~ ¹⁵ gallons of gas. Mrs. Tracy's Subaru can go ~~312~~ ³⁰⁸ miles on ~~13~~ ¹¹ gallons of gas. (2 points)
a. Find the unit rate of each car. Be sure to label.

Mrs. B: _____ Mrs. T: _____

b. Write an equation for the fuel efficiency of Mrs. Bonertz's and Mrs. Tracy's car using G for number of gallons and M for miles.

Mrs. B: _____ Mrs. T: _____

- 7) A dairy manager says it takes ⁴⁵~~50~~ pounds of milk to make ⁹~~8~~ pounds of cheddar cheese. How many pounds of milk would it take to make ⁶~~8~~ pounds of cheese? Show all work. (1 point)

- 8) The ratio of orange concentrate to water in a Juice mixture is ^{3:7}~~3~~ to ~~5~~. What percent of the mixture is concentrate? Show all work. (1 point)

LT 5: Students can use proportional relationships, equivalencies, and percents to solve a variety of real world problems. (3 points)

- 9) At the first wrestling match, you estimate the ratio of 6th grade fans to 7th grade fans as 7:5. There were ⁹⁶~~60~~ student fans in the stands that day. How many fans were 6th graders? Please show all work. (2 points)

- 10) Of the ⁸²⁵~~840~~ students at Kinard, 80% are driven to school, 11% bike to school, and 9% walk to school. How many students are driven to school? Show your work. (1 point)